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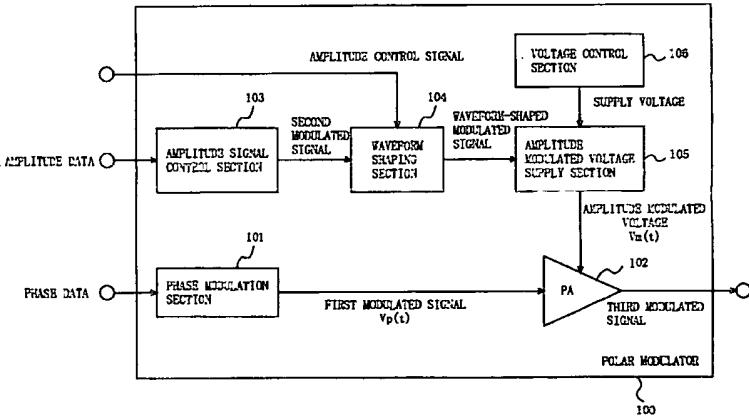
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(54) Title: POLAR MODULATOR AND WIRELESS COMMUNICATION APPARATUS USING THE SAME



(57) Abstract: A phase modulation section (101) generates a first modulated signal including phase information. An amplitude signal control section (103) generates a second modulated signal including amplitude information. A waveform shaping section (104), when an amplitude of the second modulated signal is larger than a regulated value, generates a waveform-shaped modulated signal. An amplitude modulated voltage supply section (105) amplifies the waveform-shaped modulated signal based on the supply voltage from a voltage control section (106) and supplies the amplified signal to a power amplification section (102). The power amplification section (102) amplifies the first modulated signal based on the amplitude modulated voltage, and outputs the resultant signal. The waveform shaping section (104) adjusts the regulated value in accordance with a factor for changing a distorted power generated by the power amplification section (102), such that an ACP generated by the power amplification section (102) becomes a first predetermined value or smaller.

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